INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

T.84

Amendment 1
(04/99)

SERIES T: TERMINALS FOR TELEMATIC SERVICES

Information technology – Digital compression and coding of continuous-tone still images: Extensions

Amendment 1: Provisions to allow registration of new compression types and versions in the SPIFF header

ITU-T Recommendation T.84 – Amendment 1

(Previously CCITT Recommendation)

ITU-T T-SERIES RECOMMENDATIONS

TERMINALS FOR TELEMATIC SERVICES

For further details, please refer to ITU-T List of Recommendations.

INTERNATIONAL STANDARD 10918-3

ITU-T RECOMMENDATION T.84

INFORMATION TECHNOLOGY – DIGITAL COMPRESSION AND CODING OF CONTINUOUS-TONE STILL IMAGES: EXTENSIONS

AMENDMENT 1

Provisions to allow registration of new compression types and versions in the SPIFF header

Summary

Amendment 1 to ITU-T Rec. T.84 | ISO/IEC 10918-3 allows registration of new compression types and versions in the SPIFF (the standard JPEG file format) header.

Source

The ITU-T Recommendation T.84, Amendment 1 was approved on the 1st of April 1999. The identical text is also published as ISO/IEC International Standard 10918-3.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation the term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration*, *ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992)*.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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1) Subclause F.2.1

Replace the parameter definition of VERS with:

VERS: This parameter identifies the version number of this SPIFF specification that the file complies. The parameter is defined as a two-byte integer with the most significant byte containing the major revision number and the least significant byte containing a minor revision number.

In order to make this file format as flexible as possible, a provision has been made that allows new parameter values in the header of a SPIFF file which are not specified in this Recommendation | International Standard. The value of VERS will increase when these new parameter values are present. The method of adding these new parameter values to this Recommendation | International Standard and the conditions which apply when these new values are found is specified in F.2.1.2.

2) Subclause F.2.1

Replace Compression type of the parameter definition of C:

"Compression type – Specifies the compression algorithm used to compress the image data:"

with:

Compression type - Specifies the compression algorithm used to compress the image data. Additional new parameters are specified via the registration process defined in ITU-T Rec. T.86 | ISO/IEC 10918-4 to support new types of compressions, such as JPEG-LS (ISO/IEC 14495 – to be published) and Multicomponent JPEG (ISO/IEC 14493 – to be published).

3) New subclause F.2.1.2

Add a new subclause F.2.1.2:

F.2.1.2 Addition of new header parameter values

These shall only be added through a registration procedure specified in ITU-T Rec. T.86 | ISO/IEC 10918-4, or by formal amendment or revision of this Recommendation | International Standard. This registration procedure specifies a new and increased value for the parameter VERS on each occasion that a registration is accepted by the registration authority responsible for registration in accordance with ITU-T Rec. T.86 | ISO/IEC 10918-4.

Encoders are encouraged to ensure that the value of VERS used is the lowest version that includes the information required to understand the file format.

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